

## *Boloria frigga saga* (Frigga Fritillary)

### Priority 1 Species of Greatest Conservation Need (SGCN)

**Class:** *Insecta* (Insects)

**Order:** *Lepidoptera* (Butterflies, Skippers, And Moths)

**Family:** *Nymphalidae* (Brushfooted Butterflies)

#### General comments:

proposed endangered 2014; only 1 known population; restricted to northern Maine and habitat specialized but still partially un-surveyed; absent at several seemingly appropriate locales

#### Species Conservation Range Maps for Frigga Fritillary:

Town Map: [Boloria frigga saga Towns.pdf](#)

Subwatershed Map: [Boloria frigga saga HUC12.pdf](#)

#### SGCN Priority Ranking - Designation Criteria:

##### Risk of Extirpation:

Maine Status: Endangered

**State Special Concern or NMFS Species of Concern: NA**

**Recent Significant Declines: NA**

**Regional Endemic: NA**

**High Regional Conservation Priority: NA**

**High Climate Change Vulnerability:**

Vulnerability: 3, Confidence: Medium, Reviewers: Decided in Workshop (W)

##### Understudied rare taxa:

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. \*criteria only qualifies for Priority 3 level SGCN\*

Notes: proposed endangered 2014; only 1 known population; restricted to northern Maine and habitat specialized but still relatively un-surveyed; absent at several seemingly appropriate locales

**Historical: NA**

**Culturally Significant: NA**

**Professional Discretion:**

Current criteria ranked *Boloria frigga saga* as SGCN priority 2, however, species should qualify as SGCN priority 1 based on professional discretion.

Justification: Proposed endangered 2014; only one known population

#### Habitats Assigned to Frigga Fritillary:

Formation Name	Peatland
Macrogroup Name	Northern Peatland & Fens
Habitat System Name:	Boreal-Laurentian Bog <b>**Primary Habitat**</b> Notes: where host plant ( <i>Salix pedicellaris</i> or <i>Betula pumila</i> ) present

#### Stressors Assigned to Frigga Fritillary:

Stressor Priority Level based on Severity and Actionability	Moderate Severity		High Severity	
	Highly Actionable		Medium-High	
	Moderately Actionable		Medium	
	Actionable with Difficulty		Low	

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#### IUCN Level 1 Threat      Other Options

**IUCN Level 2 Threat:** Lack of knowledge

**Severity:** Moderate Severity

**Actionability:** Highly actionable

**Notes:** Lack of comprehensive survey effort and monitoring to identify additional occurrences and status/trends of individual populations

#### IUCN Level 1 Threat      Pollution

**IUCN Level 2 Threat:** Agricultural and Forestry Effluents

**Severity:** Moderate Severity

**Actionability:** Highly actionable

**Notes:** Pesticide spraying and potential aerial drift (e.g. Spruce Budworm control)

#### IUCN Level 1 Threat      Biological Resource Use

**IUCN Level 2 Threat:** Hunting and Collecting Terrestrial Animals

**Severity:** Moderate Severity

**Actionability:** Moderately actionable

**Notes:** Potential pressure by rare butterfly collectors; population level impacts likely negligible unless collecting is intense

#### IUCN Level 1 Threat      Climate Change and Severe Weather

**IUCN Level 2 Threat:** Habitat Shifting or Alteration

**Severity:** Moderate Severity

**Actionability:** Actionable with difficulty

**Notes:** Species is at southern range edge and is a northern peatland specialist

### Species Level Conservation Actions Assigned to Frigga Fritillary:

None. *Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

### Conservation Actions Associated with the Peatland Lepidoptera Guild:

<b>Conservation Action</b>	<b>Category:</b> Species Management	<b>Biological Priority:</b> critical	<b>Type:</b> new
Prepare occurrence maps and pesticide spray consultation guidelines for rare Lepidoptera and distribute to strategic partners including Maine Bureau of Pesticides Control.			

#### Stressor(s) Addressed By This Conservation Action

Agricultural and Forestry Effluents

### Broad Taxonomic Group Conservation Actions:

Additional relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

### Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

*The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.*